

REMARKS

Claims 10 and 28 have been canceled. The claims remaining in the application are 1-9, 11-27, and 29-75.

Drawings

The Examiner has objected to the drawings because every feature of the invention specified in the claims 10 and 28 is not shown. Claims 10 and 28 have been canceled.

Rejection Under 35 U.S.C. § 112

The Examiner has rejected claims 6-11 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This rejection is respectfully traversed.

Rejection Under 35 U.S.C. § 102

The Examiner has rejected claims 1, 2, 4, 8-10, 14, 18-20, 39, 40, 43-46, 48, 49, 51, 54-57, 59, 61, 63, 66, 67, 69, 71, 73, and 74 under 35 U.S.C. 102(e) as being anticipated by Mihara (U.S. 6,517,211). This rejection is respectfully traversed.

In the present invention the purpose of the magnifying relay lens is to reduce the angles from the spatial light modulator at the dichroic surface. In the Mihara reference there is no magnifying relay lens. The lens 203R that the Examiner refers to as a convergence lens and is upstream of the light valve 201R. Thus, it would be impossible for the convergent lens, which is merely a positive lens or condenser lens, to relay or magnify an image since it is upstream of the light valve which forms the image 201. Thus, it is seen that Mihara does not have a magnifying relay lens which is one of the important components of the present invention.

Rejection Under 35 U.S.C. § 103

The Examiner has rejected claims 3, 6, 11-13, 16, 17, 21-24, 26-32, 34-38, 42, 50, 53, 60, 62, 65, 68, 72, and 75 under 35 U.S.C. 103(a) as being

unpatentable over Mihara in view of Cipolla et al. (U.S. 6,247,816). This rejection is respectfully traversed.

The Examiner has rejected claims 5, 7, 15, 25, 33, 34, 41, 47, 52, 58, 64, and 70 under 35 U.S.C. 103(a) as being unpatentable over Mihara in view of Cipolla et al. and further in view of Mukawa et al. (U.S. 6,561,654). This rejection is respectfully traversed.

The Examiner states that by definition a glass lens magnifies an image. This is incorrect. It is seen looking at Cipolla et al. that it does in fact contain a relay lens 50, shown in Figure 1. However, it is also seen that the relay lens 50 in Cipolla et al. is a 1X magnification, that is the object and the image are the same size. In Cipolla et al. the relay lens 50 does not magnify the image it is used merely because the blue spatial light modulator is offset from the path of the green and the red spatial light modulators. Thus, Cipolla et al., either individually or in combination with Mihara, does not show the magnifying relay lens that the present invention incorporates.

Another point worth noting is that the references shown do not form virtual images because they do not have a magnifying relay lens as in the present invention. The closest that one of the references comes is Cipolla et al. which forms a virtual image of the blue channel by means of using the 1X relay lens 50. However, since the red and the green channels do not have a relay lens the image they form would be real but the combined image which passes through the combiner has part virtual and part real image so it differs from the present invention.

The Examiner's comments about the dependent claims are noted, however, the dependent claims add additional limitations to independent claims which have been distinguished over the prior art and are therefore also patentable.

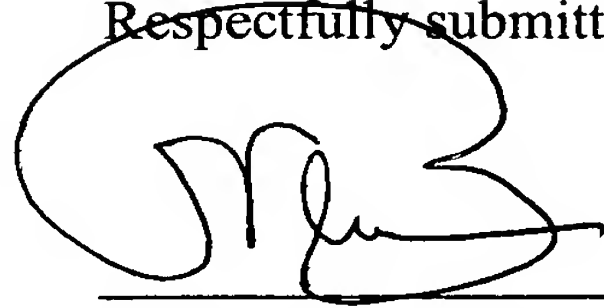
CONCLUSION

In conclusion, none of the prior art cited by the Examiner discloses the limitations of the claims of the present invention, either individually or in combination. Therefore, it is believed that the claims are allowable.

If the Examiner is of the opinion that additional modifications to the claims are necessary to place the application in condition for allowance, she is

invited to contact Applicant's attorney at the number listed below for a telephone interview and Examiner's amendment.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'N. A. Blish', written over a horizontal line.

Attorney for Applicant(s)
Registration No. 29,134

Nelson A. Blish/tmp
Rochester, NY 14650
Telephone: 585-588-2720
Facsimile: 585-477-4646